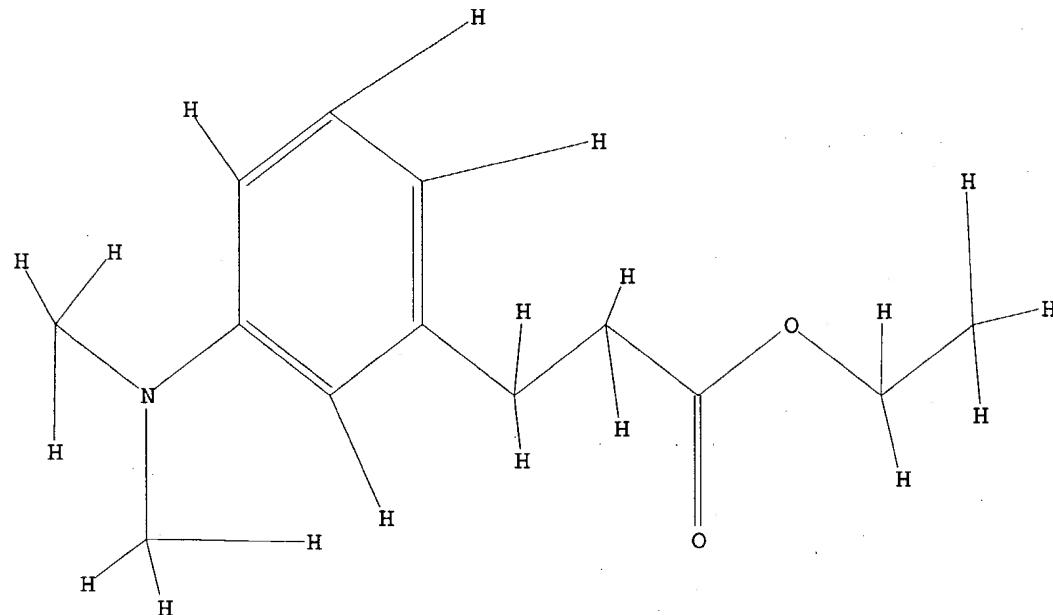


This file contains CAS Registry Numbers for easy and accurate substance identification.

=>
Uploading C:\STNEXP4\QUERIES\383c.str

L7 STRUCTURE UPLOADED

=> d 17
L7 HAS NO ANSWERS
L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 17
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 17:09:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 87151 TO ITERATE

1.1% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 0

L8 0 SEA SSS SAM L7

L9 0 L8

=> s 17 full

REGISTRY INITIATED

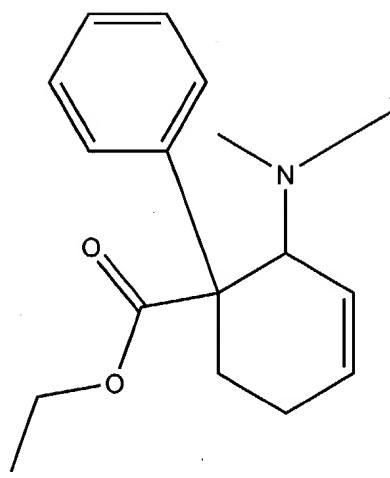
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:10:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE

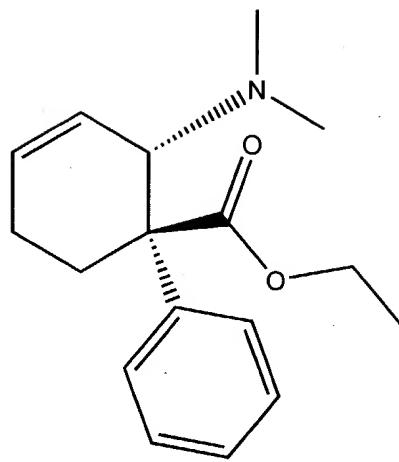
< 22.9% PROCESSED 400000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.06

0 ANSWERS

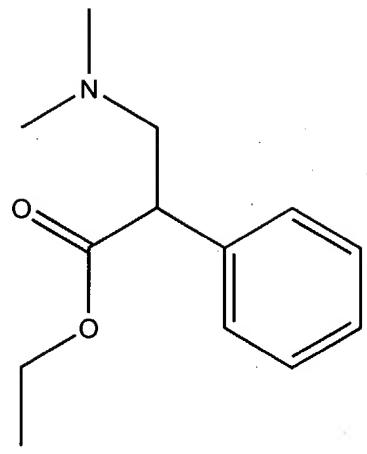
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**



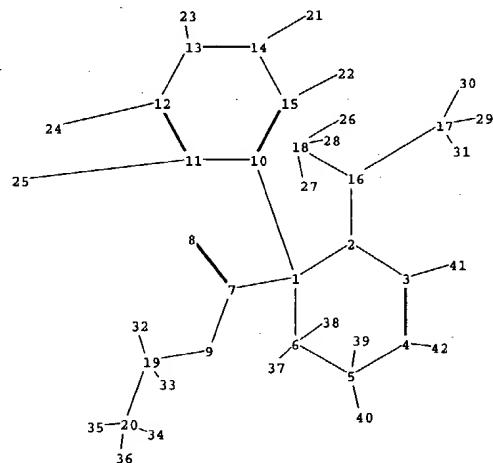
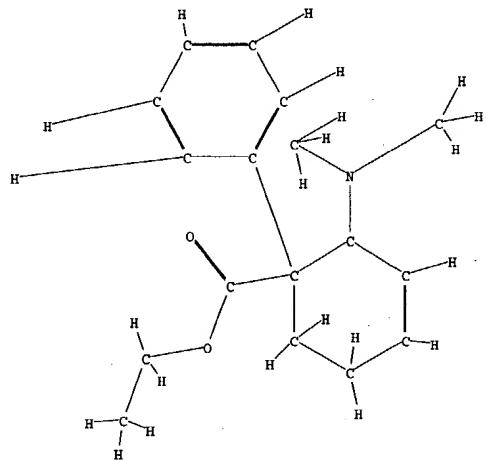
ethyl 2-dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate



3-trans-dimethyl-amino-4-phenyl-4-trans-carbethoxy-cyclohexene



ethyl 3-dimethylamino-2-phenylpropionate



chain nodes :

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

ring nodes :

1 2 3 4 5 6 10 11 12 13 14 15

ring/chain nodes :

7 8 9 16 17 18 19 20

chain bonds :

3-41 4-42 5-39 5-40 6-37 6-38 11-25 12-24 13-23 14-21 15-22 17-29 17-30 17-31
18-26 18-27 18-28 19-32 19-33 20-34 20-35 20-36

ring/chain bonds :

1-7 1-10 2-16 7-8 7-9 9-19 16-17 16-18 19-20

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

exact/norm bonds :

1-7 1-10 19-20

exact bonds :

1-2 1-6 2-3 2-16 3-4 3-41 4-5 4-42 5-6 5-39 5-40 6-37 6-38 7-8 7-9 9-19
11-25 12-24 13-23 14-21 15-22 16-17 16-18 17-29 17-30 17-31 18-26 18-27 18-28
19-32 19-33 20-34 20-35 20-36

normalized bonds :

10-11 10-15 11-12 12-13 13-14 14-15

Match level :

1:Atom	2:Atom	3:Atom	4:Atom	5:Atom	6:Atom	7:CLASS	8:CLASS	9:CLASS	10:Atom	11:Atom
12:Atom	13:Atom	14:Atom	15:Atom	16:CLASS	17:CLASS	18:CLASS	19:CLASS	20:CLASS		
21:CLASS	22:CLASS	23:CLASS	24:CLASS	25:CLASS	26:CLASS	27:CLASS	28:CLASS	29:CLASS		
30:CLASS	31:CLASS	32:CLASS	33:CLASS	34:CLASS	35:CLASS	36:CLASS	37:CLASS	38:CLASS		
39:CLASS	40:CLASS	41:CLASS	42:CLASS							

(FILE 'HOME' ENTERED AT 16:58:35 ON 20 MAY 2004)

FILE 'CAPLUS' ENTERED AT 16:58:40 ON 20 MAY 2004

STRUCTURE UPLOADED
S L1

FILE 'REGISTRY' ENTERED AT 16:59:05 ON 20 MAY 2004

1 S L1

FILE 'CAPLUS' ENTERED AT 16:59:06 ON 20 MAY 2004

2 S L2
S L1

FILE 'REGISTRY' ENTERED AT 16:59:20 ON 20 MAY 2004

32 S L1 FULL

FILE 'CAPLUS' ENTERED AT 16:59:21 ON 20 MAY 2004

220 S L4 FULL

1 S L5 AND PROPIONIC ACID

FILE 'STNGUIDE' ENTERED AT 17:04:33 ON 20 MAY 2004

FILE 'CAPLUS' ENTERED AT 17:09:22 ON 20 MAY 2004

STRUCTURE UPLOADED
S L7

FILE 'REGISTRY' ENTERED AT 17:09:57 ON 20 MAY 2004

0 S L7

FILE 'CAPLUS' ENTERED AT 17:09:58 ON 20 MAY 2004

0 S L8

S L7

FILE 'REGISTRY' ENTERED AT 17:10:09 ON 20 MAY 2004

0 S L7 FULL

FILE 'CAPLUS' ENTERED AT 17:10:15 ON 20 MAY 2004

0 S L10 FULL

=> s 15 and dimethyl

320038 DIMETHYL

2 L5 AND DIMETHYL

=> s 15 and dimethylamino

66809 DIMETHYLAMINO

37 L5 AND DIMETHYLAMINO

=> s 15 and dimethylamino and phenyl

66809 DIMETHYLAMINO

311574 PHENYL

35 L5 AND DIMETHYLAMINO AND PHENYL

=> s 114 and propionic acid

3 PROPINIC

3819309 ACID

2 PROPINIC ACID

(PROPINIC(W)ACID)

L15 0 L14 AND PROPINIC ACID

=> s 114 and propionic acid

50822 PROPIONIC

3819309 ACID

44734 PROPIONIC ACID

(PROPIONIC(W)ACID)

L16 0 L14 AND PROPIONIC ACID

=> s 114 and ethylester

274 ETHYLESTER

=>
Uploading C:\STNEXP4\QUERIES\383.str

L1 STRUCTURE uploaded

=> d 11
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 11
REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 16:59:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1566 TO ITERATE

63.9% PROCESSED 1000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 28947 TO 33693
PROJECTED ANSWERS: 1 TO 106

L2 1 SEA SSS SAM L1

L3 2 L2

=> s 11 full
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 16:59:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 32455 TO ITERATE

100.0% PROCESSED 32455 ITERATIONS 32 ANSWERS
SEARCH TIME: 00.00.01

L4 32 SEA SSS FUL L1

L5 220 L4

=> d 13 1-2 ibib abs hitstr

L17

0 L14 AND ETHYLESTER

=> s 114 and ethyl and ester

. 411124 ETHYL

. 544281 ESTER

L18 5 L14 AND ETHYL AND ESTER

=> d 1-5 ibib abs hitstr

L18 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:367260 CAPLUS

TITLE: Solid drug delivery systems for opiates, opioids and stimulants that are protected against abuse using antagonists

INVENTOR(S): Bartholomaeus, Johannes; Langner, Klaus-Dieter

PATENT ASSIGNEE(S): Gruenenthal GmbH, Germany

SOURCE: Ger. Offen., 15 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10250088	A1	20040506	DE 2002-10250088	20021025
WO 2004037260	A1	20040506	WO 2003-EP11785	20031024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: DE 2002-10250088 A 20021025

AB The invention concerns two-compartment solid drug delivery systems for opiates, opioids and stimulants in order to prevent drug abuse; one compartment includes the drug the other compartment contains an antagonist or antagonists to the drug. When drugs are used for medical purpose, the antagonist is not dissolved. In case the formulation is disintegrated, and/or extracted for drug overuse, the antagonists are in the same phase as the drug for action. Layered tablets can be produced; or identical, but not labeled tablets, pellets are prepared from drug and antagonist. Thus a two layer tablet contained (mg): in the coating: naltrexone hydrochloride 50; Cutina HR 50; in the outer layer: morphine sulfate pentahydrate 60; methylhydroxy Pr cellulose 100; microcryst. cellulose 165; lactose monohydrate 165; magnesium stearate 5; silica 5.

IT INDEXING IN PROGRESS

IT 20380-56-7, 3-Cyclohexene-1-carboxylic acid, 2-(

dimethylamino)-1-phenyl-, ethyl ester

, (1R,2R)-rel- 51931-66-9, 3-Cyclohexene-1-carboxylic acid, 2-(

dimethylamino)-1-phenyl-, ethyl ester

, (1R,2S)-rel-

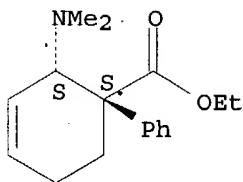
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(solid drug delivery systems for opiates, opioids and stimulants that are protected against abuse using antagonists)

RN 20380-56-7 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

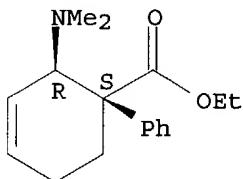
Relative stereochemistry.



RN 51931-66-9 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester,
(1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:5117 CAPLUS

DOCUMENT NUMBER: 140:47586

TITLE: Solid, delayed-release pharmaceutical composition comprising tilidine hydrochloride

INVENTOR(S): Schumann, Christof; Renz, Jessica

PATENT ASSIGNEE(S): Stada Arzneimittel A.-G., Germany

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1374859	A1	20040102	EP 2003-14715	20030627
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			DE 2002-10229216 A	20020628

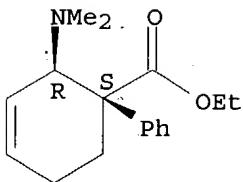
PRIORITY APPLN. INFO.: AB The invention concerns a solid, stable formulation of tilidine hydrochloride hemihydrate that contains retarding agents, excipients, but no agents that would form complexes with two-and three-valent metals and pyrazole acetic acid. Addnl. the morphine antagonist naloxone can be included into the formulations. Thus a tablet contained (mg/tablet): tilidine hydrochloride x 0.5 102.9; naloxone hydrochloride dihydrate 8.8; hydroxypropylmethyl cellulose (4000 cP) 55; hydroxypropyl methylcellulose (100 cP) 35; microcryst. cellulose 149 mg; silica 3; magnesium stearate 2. The tablets were coated with Opadry.

IT 27107-79-5, Tilidine hydrochloride
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
(solid, delayed-release pharmaceutical composition comprising tilidine hydrochloride)

RN 27107-79-5 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

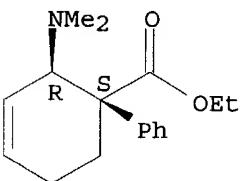


● HCl

IT 255733-17-6, 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, hydrate (2:1), (1R,2S)-rel-
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
 USES (Uses)
 (solid, delayed-release pharmaceutical composition comprising tilidine hydrochloride)

RN 255733-17-6 CAPLUS
 CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, hydrate (2:1), (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



● HCl

● 1/2 H₂O

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:1006739 CAPLUS
 DOCUMENT NUMBER: 140:47524
 TITLE: Drug delivery systems with abuse-protection for tranquilizers, hypnotics, sedatives and stimulants containing thickening agents
 INVENTOR(S): Bartholomaeus, Johannes; Kugelmann, Heinrich
 PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003105808	A1	20031224	WO 2003-EP6314	20030616
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,			

LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG,
 PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
 TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
 CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
 NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
 GW, ML, MR, NE, SN, TD, TG

DE 10250083 A1 20031224 DE 2002-10250083 20021025

PRIORITY APPLN. INFO.: DE 2002-10227077 A 20020617
 DE 2002-10250083 A 20021025

AB The invention relates to a solid administration form, protected from parenteral abuse and containing at least one viscosity-increasing agent in addition to one or more active substances that have parenteral abuse potential. Said agent forms, when a necessary min. amount of an aqueous liquid is added, on the basis of an extract obtained from the administration form, a preferably injectable gel that remains visually distinct when introduced into another quantity of an aqueous liquid. Thus a matrix tablet contained (mg):

(-)-(1R,2R)-3-(3-dimethylamino-1-ethyl

-2-methyl-propyl)phenol hydrochloride 100; hydroxypropyl methylcellulose 70; Xanthan 10; cellulose 123; silica 4; magnesium stearate 3.

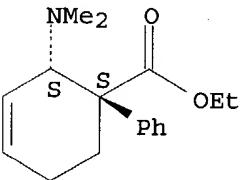
IT 20380-56-7, 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester
 , (1R,2R)-rel- 51931-66-9, 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester
 , (1R,2S)-rel-

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (drug delivery systems with abuse-protection for tranquilizers,
 hypnotics, sedatives and stimulants containing thickening agents)

RN 20380-56-7 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester,
 (1R,2R)-rel- (9CI) (CA INDEX NAME)

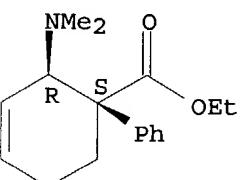
Relative stereochemistry.



RN 51931-66-9 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester,
 (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:51362 CAPLUS

DOCUMENT NUMBER: 133:89330

TITLE: Reduction of ethyl 3-dimethylamino-2-phenylpropionate content in solutions of ethyl 2-dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate using

INVENTOR(S): Thyes, Marco; Falkenberg, Wolfgang; Schneider, Ulrich
 PATENT ASSIGNEE(S): Knoll Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 11 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043353	A1	20000727	WO 2000-EP306	20000115
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19902590	A1	20000727	DE 1999-19902590	19990122
TW 462958	B	20011111	TW 1999-88122113	19991216
CA 2359080	AA	20000727	CA 2000-2359080	20000115
BR 2000007646	A	20011016	BR 2000-7646	20000115
EP 1144361	A1	20011017	EP 2000-902598	20000115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002535303	T2	20021022	JP 2000-594771	20000115
RU 2201918	C1	20030410	RU 2001-123589	20000115
AU 766196	B2	20031009	AU 2000-24376	20000115
ZA 2001005537	A	20020705	ZA 2001-5537	20010705
NO 2001003528	A	20010717	NO 2001-3528	20010717

PRIORITY APPLN. INFO.: DE 1999-19902590 A 19990122
 WO 2000-EP306 W 20000115

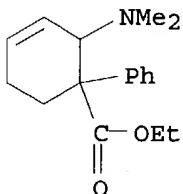
AB The amount of Et 3-dimethylamino-2-phenylpropionate (I) impurity in a solution of Et 2-dimethylamino-1-phenyl-3-cyclohexene-1-carboxylate (II) in a non-H₂O miscible solvent is reduced by treatment with 0.5-2.0 equiv of carboxylic acid per mol II followed by stirring at 50-100°. Thus, II containing 1% I in cyclohexane was refluxed 2 h with HOAc; the mixture was treated with H₂O and aqueous NaOH followed by phase separation to give II containing 0.05% I.

IT 17243-69-5P

RL: PUR (Purification or recovery); PREP (Preparation)
 (reduction of Et 3-dimethylamino-2-phenylpropionate content in
 solns. of Et 2-dimethylamino-1-phenyl-
 -3-cyclohexene-1-carboxylate using carboxylic acids)

RN 17243-69-5 CAPLUS

CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester
 (8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

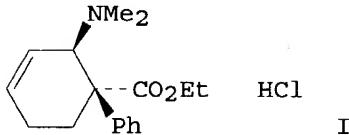
L18 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1977:593563 CAPLUS

DOCUMENT NUMBER: 87:193563

TITLE: Metabolism of trans-D,L-2-(dimethylamino)-1-

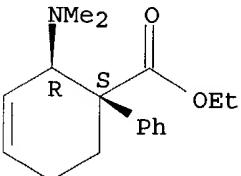
phenyl-3-cyclohexene-1-carboxylic acid
ethyl ester hydrochloride
 (tilidine-HCl). Part 3. Renal metabolite elimination
 in rats, dog, and man
 Vollmer, K. O.; Von Hodenberg, A.
 Forschungsinst., Goedecke A.-G., Freiburg/Br., Fed.
 Rep. Ger.
 SOURCE: Arzneimittel-Forschung (1977), 27(9), 1706-13
 DOCUMENT TYPE: CODEN: ARZNAD; ISSN: 0004-4172
 LANGUAGE: Journal
 GI German



AB Renal elimination of tilidine-HCl (I) [27107-79-5] was similar in the rat, dog, and man. After oral administration of I-14C 50-60, 80, and >90% of the applied dose was eliminated in the urine in the resp. species. The half-life of renal 14C elimination was 8 h in the rat and man, and the elimination was faster in the dog. In all species, about 17% of the urinary radioactivity was in nonpolar metabolites. About 2-3% each was in nortilidine [38677-94-0] and bisnortilidine [53948-51-9], and <0.2% in unchanged I. Most of the polar metabolites were glucuronides. Five new metabolites, oxygenated derivs. of nortilidine and bisnortilidine, were isolated from rat urine.

IT 27107-79-5
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (metabolism of)
 RN 27107-79-5 CAPLUS
 CN 3-Cyclohexene-1-carboxylic acid, 2-(dimethylamino)-1-phenyl-, ethyl ester, hydrochloride, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



● HCl

=>